

FIG. 2A

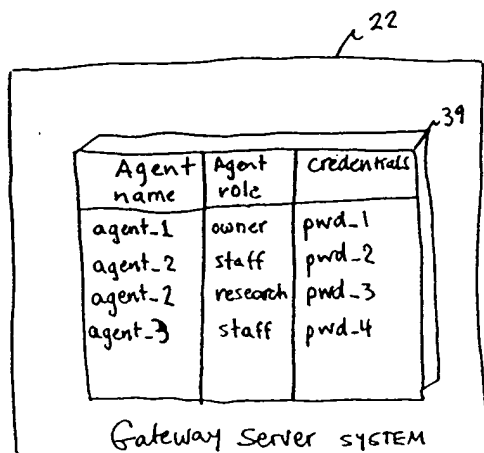


FIG 2B

## Document Type Definition

|  |     |
|--|-----|
| <!-- Root Directory Structure -->  |     |
| <!ELEMENT Record-root (Owner, Header, Data)><br><!ATTLIST Record-root name CDATA '/'>  | ~40 |
| <!ELEMENT Record-object (Header, Data, Annotation*)><br><!ATTLIST Record-object name CDATA #REQUIRED<br>type CDATA #IMPLIED<br>url CDATA #IMPLIED>   | ~44 |
| <!ELEMENT Header (Author, Owner?, Creation-date, Privileges)>  | ~48 |
| <!ELEMENT Author EMPTY><br><!ATTLIST Author alias CDATA #REQUIRED>   | ~52 |
| <!ELEMENT Owner EMPTY><br><!ATTLIST Owner alias CDATA #REQUIRED>   | ~56 |
| <!ELEMENT Creation-date EMPTY><br><!ATTLIST Creation-date time CDATA #IMPLIED>   | ~60 |
| <!ELEMENT Privileges (Privilege*)><br><br><!ELEMENT Privilege EMPTY><br><!ATTLIST Privilege role CDATA #REQUIRED<br>read (t f) 'f'<br>create (t f) 'f'<br>modify (t f) 'f'<br>delete (t f) 'f'<br>annotate (t f) 'f' > | ~64 |
| <!-- the data section -->  | ~68 |
| <!ELEMENT Data (Record-object*)><br><!ATTLIST Data type CDATA 'text/xml'<br>url CDATA #REQUIRED>   |     |
| <!ELEMENT Annotation (Ann-author, Ann-date, Ann-text)><br><!ELEMENT Ann-author (#PCDATA)><br><!ELEMENT Ann-date (#PCDATA)><br><!ATTLIST Ann-date datestring CDATA #IMPLIED><br><!ELEMENT Ann-text (#PCDATA)>           | ~72 |

FIG. 3

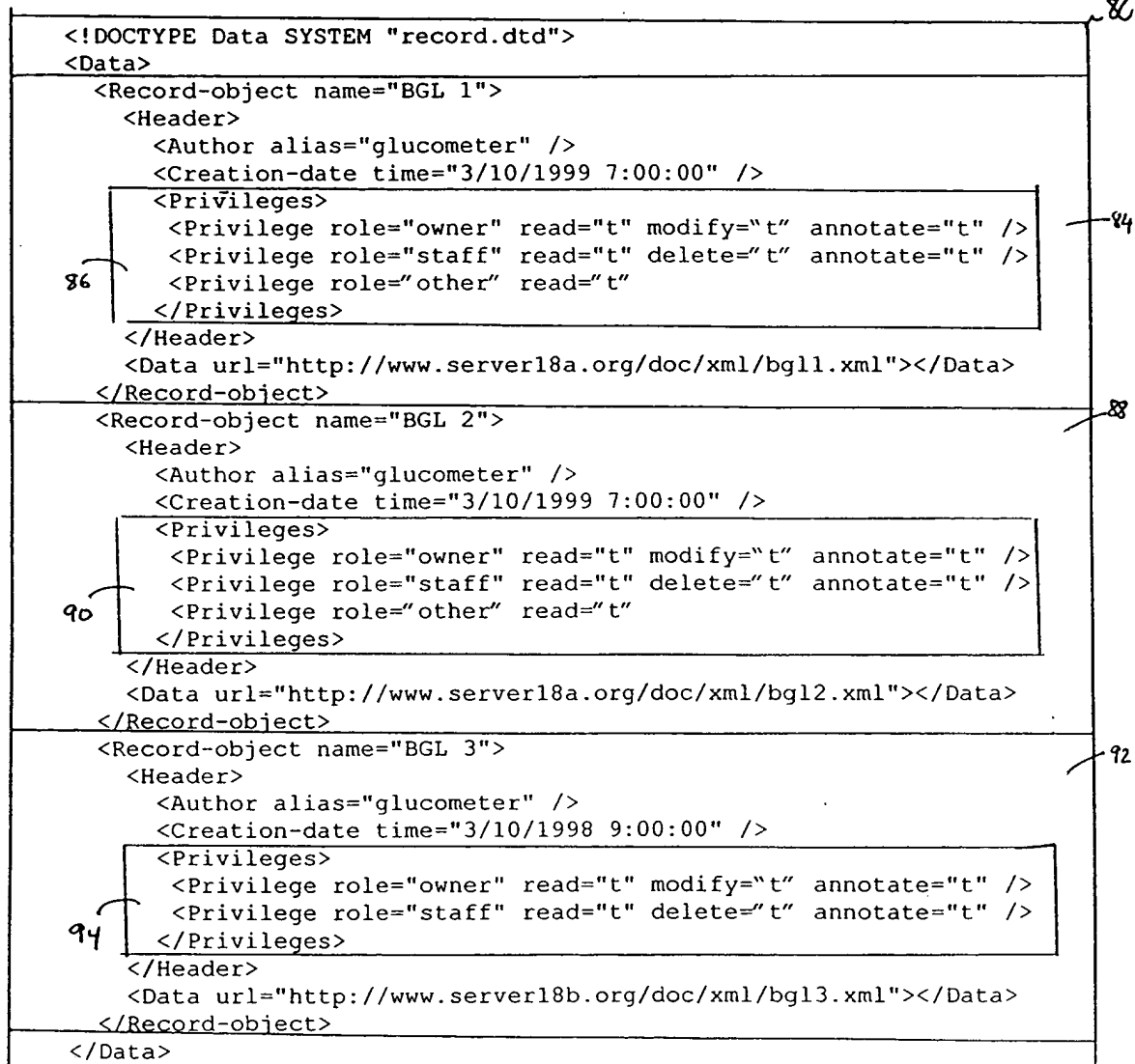


FIG. 4

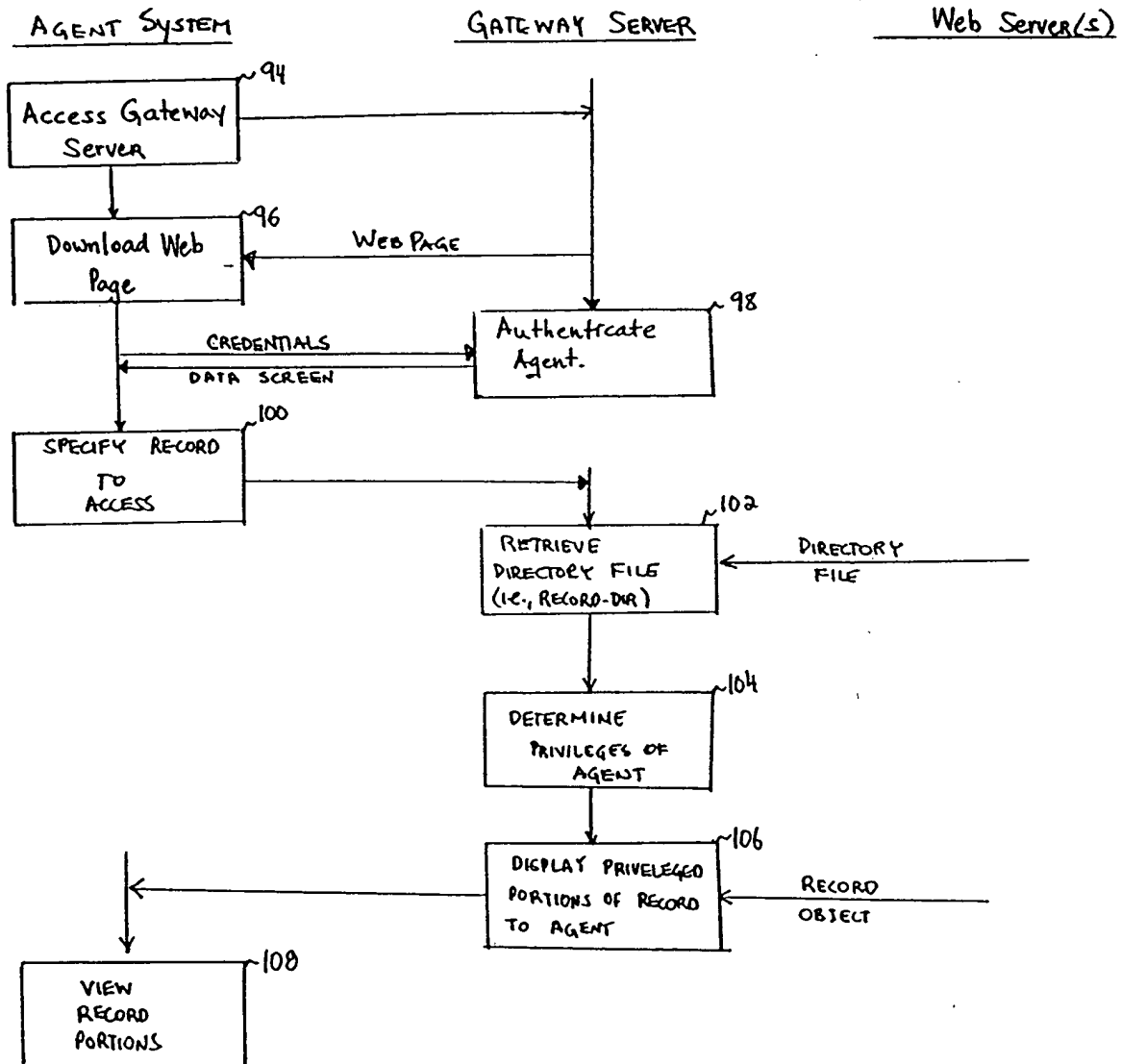


FIG. 5

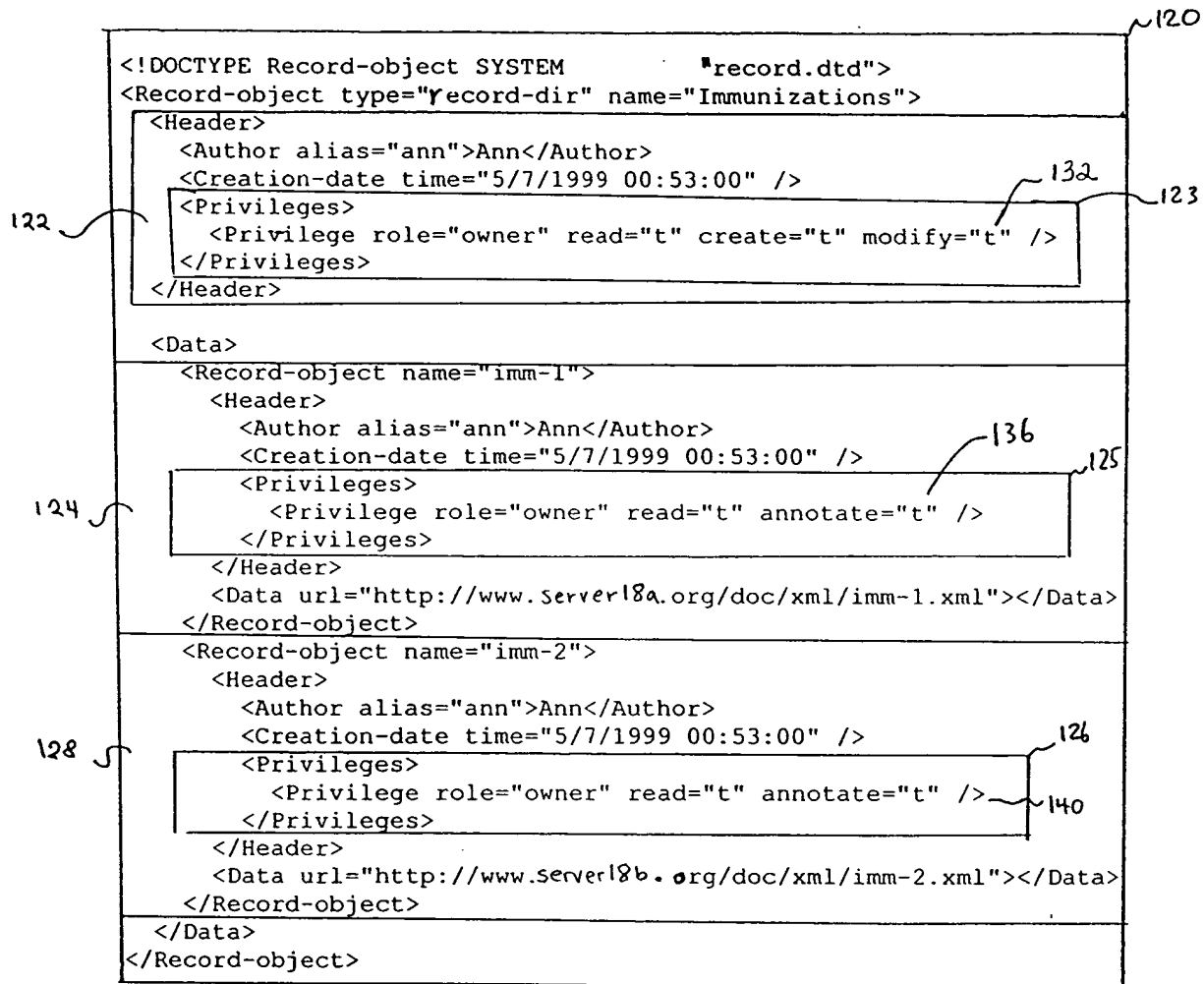


FIG. 6A

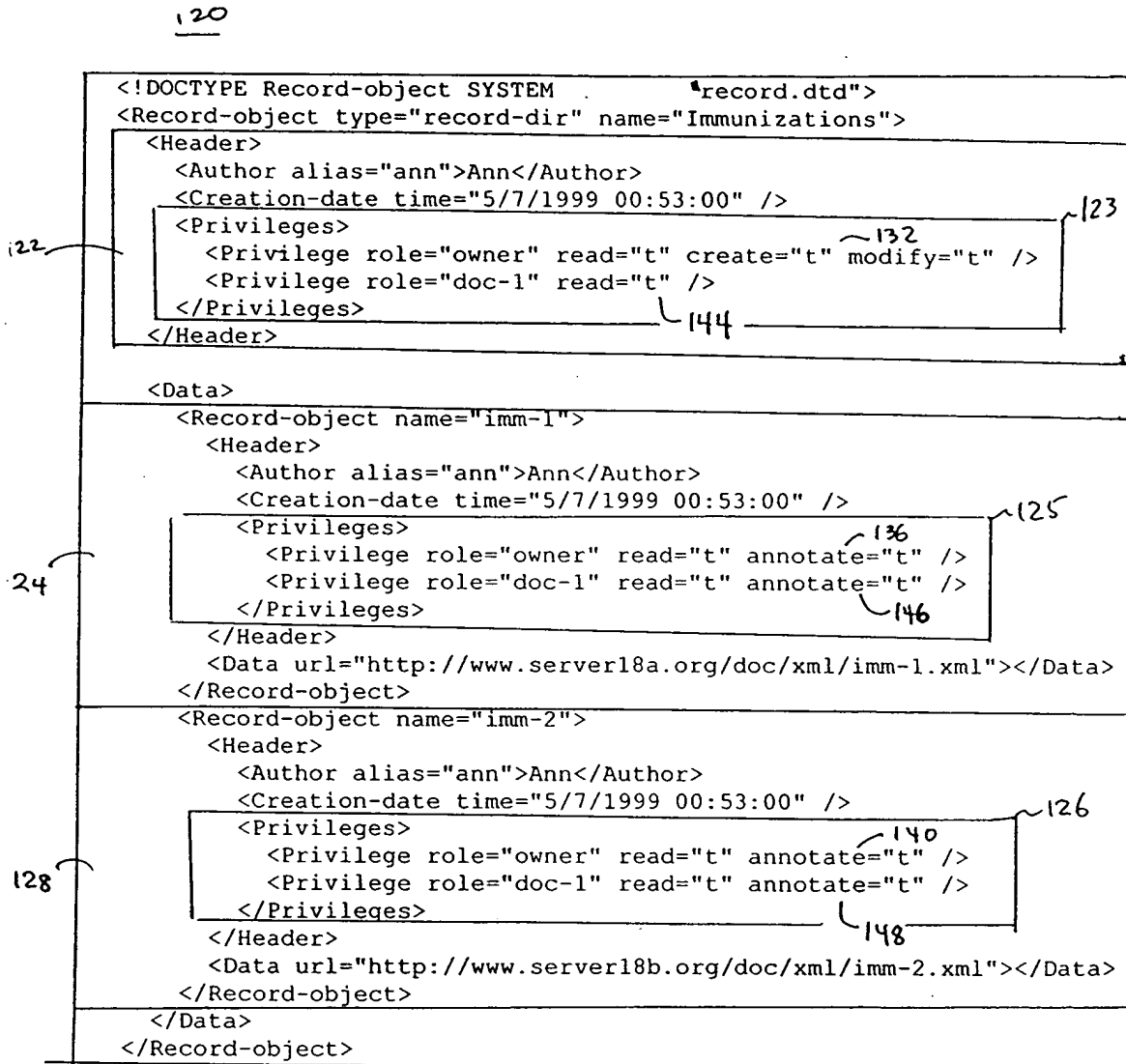


FIG. 6B